

Purchase Order Receipt Listing

Monday, April 11, 2016 8:17:05 AM

All amounts are calculated in domestic currency.

Page 1 of 1

All Vendors PO ID PO31905 Receipt Dates from 4/8/2016 to 4/8/2016 All Line Item Types
All Item ID/GL/WOs All Rec. Employees All Currencies
Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M/ Stock U/M	Required Date	Receiv Date/ Emp	Receiv Qty (PO U/M)	Cost Per Unit/ Receiv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ Reject Qty	Book Amt
Vendor ID/Vendor Name PO31905	1		VU-TW/M001 TW Metals								
USD	No		9 M6061T6T0.625W.049 f 6061-T6 RD Tube .625 x .049W m134528		4/8/2016	4/8/2016	60.0000		0.0000	0	\$0.00
	2		5 M6061T6T1.000W.06 f 6061T6 RD TUBE 1.00 x .065w m134528		4/8/2016	4/8/2016	60.0000		0.0000	0	\$0.00
	3		M304TR0.625W.049 f 304 RD Tube 0.625 x f .049 Wall m134528		4/8/2016	4/8/2016	20.0000		0.0000	0	\$0.00
	4		M304TR0.675W.091 f 304 RD Tube .675 x f .091W m134528		4/8/2016	4/8/2016	40.0000		0.0000	0	\$0.00
	5		M304TR0.750W.049 f 304 RD Tube .750 x f .049W m134528		4/8/2016	4/8/2016	80.0000		0.0000	0	\$0.00
	6		71401-45 PROCUREMENT QUALITY CLAUSES m134528		4/8/2016	4/8/2016	1.0000		0.0000	0	\$0.00

Total Received Quantity: 261.1660
Total Qty to Inspect (PO U/M): 0.0000
Total Reject Quantity: 0.0000
Total Receipt Value: \$0.00
Total Balance Due Quantity: 0.0000



PACKING SLIP

ORDER NO.: 60601317 FROM: CRAN PAGE 1

CUST NUMBER: 1203820 NET WGT: 78.108 REQ. DATE: 04/08/16 EARLY
SOLD TO: DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON CANADA
CN K6A 1K7
SHIP BY: DONNA SMALLEY
SHIP TO: DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON CANADA
CN K6A 1K7
SHIP BY: 04/05/16
VIA: COMMON CARRIER
FREIGHT: PREPAID
RELEASE NO.:
RECEIVING PHONE:
WIDTH
LENGTH
12 FT ML

LINE ITEM DESCRIPTION 0001 42506 D6061-T6 5/8 OD X .049 WA
ORD QTY 60.000 FT INVOICE QTY 60.000 FT SHIPPED QTY 60.000 FT
WT 6.235 PCS
12 FT ML

PART#: M6061T6T0.625W.049
** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **
ECCN: FAR99
PO: 49331798 HT: F001892610001 PC: 5
MLT: UNITED STATES
Export License: NLR
CUSTOMER QTY: 60.000 UOM FT
SLB/CL: 218202
Expiration Date: 0/00/00

0002 43264 D6061-T6 1 OD X .065 WA
ORD QTY 60.000 FT INVOICE QTY 60.000 FT SHIPPED QTY 60.000 FT
WT 13.500 PCS
12 FT ML

PART#: M6061T6T1.000W.065
** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **
ECCN: FAR99
PO: 49329160 HT: F001847520001 PC: 5
MLT: UNITED STATES
Export License: NLR
CUSTOMER QTY: 60.000 UOM FT
SLB/CL: 217928
Expiration Date: 0/00/00

0003 36706 SMLS CD 304/L A269 5/8 OD X .049 WA
ORD QTY 20.000 FT INVOICE QTY 20.000 FT SHIPPED QTY 20.000 FT
WT 6.026 PCS
20 FT

PART#: M304TR0.625W.049
** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **
ECCN: 2B999.9
Export License: NLR
Expiration Date: 0/00/00

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE
OF THESE PRODUCTS ARE SET FORTH ON THE
REVERSE SIDE FOR YOUR CAREFUL REVIEW.

8016048



ORDER NO.: 60601317 FROM: CRAN PAGE 2

PACKING SLIP

CUST NUMBER: 1203820 NET WGT: 78.108 REQ. DATE: 04/08/16 EARLY

SOLD TO: DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
CANADA
SHIP TO: DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
ONTARIO CANADA
CN K6A 1K7

SALESPERSON: DONNA SMALLEY
NET 30 DAYS
SHIPPING POINT
F.O.B.:
CUST ORD NO.: PO31905
SHIP BY: 04/05/16
COMMON CARRIER
PREPAID
RELEASE NO.:
RECEIVING PHONE:

LINE ITEM DESCRIPTION
PO:49324273 HT:YX1409574 MFG:CHINA
PC: 1
SLB/CL:12-45
CUSTOMER QTY: 20.000 UOM FT
LENGTH

0004 38418 W 304/304L A-312 3/8 SCH 40

ORD QTY 40.000 FT
INVOICE QTY 40.166 FT
SHIPPED QTY 40.166 FT

PCS 2

20/21 FT

PART#: M304TR0-675W091
** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **
ECCN: 2B999.9
PO:49320761 HT:LZ132868 MFG:TAIWAN
PC: 2
SLB/CL:L47425
CUSTOMER QTY: 40.167 UOM FT
Expiration Date: 0/00/00

Export License: NLR

MLT:CHINA

ORD QTY 80.000 FT
INVOICE QTY 80.000 FT
SHIPPED QTY 80.000 FT

PCS 4

20' CL

0005 36860 SMLS CD 304/L A269 3/4 OD X .049 WA

PART#: M304TR0-750W.049
** 1 TEST REPORTS REQUIRED **
** 1 CERTS REQUIRED **
ECCN: 2B999.9
PO:49342471 HT:YX1501783 MFG:CHINA
PC: 4
SLB/CL:11-63
CUSTOMER QTY: 80.000 UOM FT
Expiration Date: 0/00/00

Export License: NLR

MLT:CHINA

BROKERS KUEHNE AND NAGEL LTD

AREA TYPE OF PKG PKGS GRS WEIGHT WIDTH LENGTH HGHT
B CARTON 2.000 87.000 20.6000

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE
OF THESE PRODUCTS ARE SET FORTH ON THE
REVERSE SIDE FOR YOUR CAREFUL REVIEW.



ORDER NO.: 60601317

FROM: CRAN

PAGE 3

PACKING SLIP

78.108 REQ. DATE: 04/08/16 EARLY

SHIP TO:

DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKSBURY ON

ONTARIO CANADA

CN K6A 1K7

SHIP BY:

04/05/16

COMMON CARRIER

PREPAID

RELEASE NO.:

RECEIVING PHONE:

WIDTH

LENGTH

12.6000

CUST NUMBER: 1203820 NET WGT:

SOLD TO:

DART AEROSPACE LTD

1270 ABERDEEN ST

HAWKSBURY ON

CANADA

SALESPERSON:

DONNA SMALLEY

NET 30 DAYS

SHIPPING POINT

P031905

CUST ORD NO.:

LINE ITEM DESCRIPTION

B CARTON

BY: PS

RT 000-

2.000 87.000

UNLOAD TYPE: NONE SPECIFIED

8-20-9102

DATE SHIPPED

DATE FILLED

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE
OF THESE PRODUCTS ARE SET FORTH ON THE
REVERSE SIDE FOR YOUR CAREFUL REVIEW.



PACKING SLIP

ORDER NO.: 60601317 FROM: CRAN PAGE 4

CUST NUMBER: 1203820 NET WGT: 78.108 REQ. DATE: 04/08/16 EARLY

SOLD TO: DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
CANADA
SHIP TO: DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON
ONTARIO CANADA
CN K6A 1K7

SALESPERSON: DONNA SMALLEY SHIP BY: 04/05/16

TERMS: NET 30 DAYS 27 ENGLEHARD DRIVE
F.O.B.: SHIPPING POINT MONROE TWP NJ 08831

VIA: COMMON CARRIER PO31905

FREIGHT: PREPAID

RELEASE NO.:
RECEIVING PHONE:

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for confiterous non-manufactured wood packing material"

Authorized Test Report Clerk *[Signature]* Date: 4/04/16

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON THE REVERSE SIDE FOR YOUR CAREFUL REVIEW.

Best in Class

KAISER ALUMINUM
 FABRICATED PRODUCTS, LLC
 6573 W. WILLIS ROAD
 CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49331798-1		CUSTOMER PART NUMBER: 42506		PRODUCT DESCRIPTION: Seamless Tube/Pipe	
KAISER ORDER NUMBER: LINE ITEM: 001		SHIP DATE: 05/27/2015		KAISER LOT NUMBER: F00189261	
WEIGHT SHIPPED: 199,000 LB		QUANTITY: 160,000 PCS		B/L NUMBER: 218853	
SHIP TO: TW METALS INC 27 ENGLEHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA		SOLD TO: TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		DIA/DIA/HKNS: 6061	
TEMPER: T6		LENGTH: 12,000 FT		WIDTH: 12,000 FT	

Actual Physical Properties

REFERENCE DASH#	0001	1	47.5	45.0	15.0	N/A	N/A	N/A
SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CON%IACS	BEND		

Chemical Composition (wt%), Aluminum Remainder

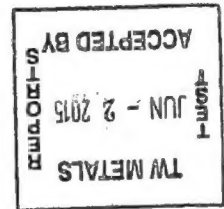
LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D74497	.60	.33	.22	.05	.95	.09	.04	.02	.00	.00	.00	.01	.02

Applicable Requirements:

Description: OD: 0.6250"; Wall: 0.0490"; Round @
 AMS-4082P AMS-MW-7-700/6B ASTM B210-12 WM-T-700/6F
 WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED.
 This Product Complies to FAR BAA, DPARS BAA, FAR TAA
 COMPLIES TO DIN EN 10204 JAN 2005
 No Weld Repair. Mercury Free.

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
 MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT- SUPPLIES), DPARS BAA
 (DPARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5
 TRADE AGREEMENTS).



CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

Best in Class

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ('Kaiser') hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms conditions of sale. Test reports are on file subject to examination.

Linda Adkins, Quality Manager

Linda Adkins

Plant Serial: 00019450
Kaiser Order Number: 218208
Line Item: 001

Best in Class

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CUSTOMER PO NUMBER: M49329160-1		CUSTOMER PART NUMBER: 43284		PRODUCT DESCRIPTION: Seamless Tube/Pipe	
KAISER ORDER NUMBER: LINE ITEM: 001	SHIP DATE: 03/30/2015	KAISER LOT NUMBER: F00184752	ALLOY: 6061	TEMPER: T6	
WEIGHT SHIPPED: 574.000 LB	QUANTITY: 213.000 PCS	B/L NUMBER: 218301	SOLD TO:		
SHIP TO:			TW METALS INC 27 ENGLEHARD DRIVE EXIT 8A OFF NJ TPK MONROE TWP, NJ 08831 USA		
			TW METALS INC 760 CONSTITUTION DRIVE SUITE 204 EXTON, PA 19341 USA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONFIACS	BEND
F00184752	0001	1	44.1	40.8	15.5	N/A	N/A	N/A
F00184752	0002	1	45.1	41.7	16.0	N/A	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

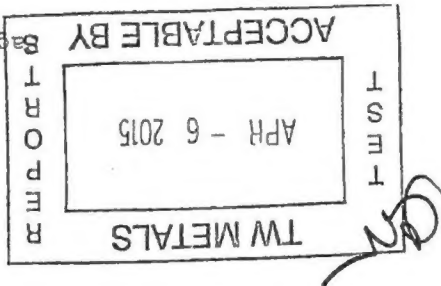
LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
D74124	.59	.34	.22	.05	.99	.08	.06	.03	.00	.00	.00	.01	.03

Applicable Requirements:

16/04/18
Description: OD: 1.0000", Wall: 0.0650", Round @
AMS-4082P AMS-WW-T-700/6B ASTM B210-12
WE TAKE EXCEPTION TO PARA. 5.2.1., Per AMS-4082P, WAS NOT OILED.
This product complies to FAR BAA, DfARS BAA, FAR TAA
COMPLIES TO DIN EN 10204 JAN 2005
No Weld Repair. Mercury Free.

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MATERIAL COMPLIES WITH FAR BAA (FAR 52.225-1, BUY AMERICAN ACT-SUPPLIES), DfARS BAA (DfARS 252.225-7001 BUY AMERICAN ACT & BAL OF PAYMENTS PROG), AND FAR TAA (FAR 52.225-5 TRADE AGREEMENTS).



Best in Class

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
6573 W. WILLIS ROAD
CHANDLER, AZ 85226

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC ("Kaiser") hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with the applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgment form. Any warranty is limited to that shown on Kaiser's general terms & conditions of sale. Test reports are on file subject to examination.

Linda Adkins, Quality Manager

Linda Adkins

PuFA™

MILL TEST REPORT

Producer of Premium Stainless Steel Seamless Tubes

Purchaser: TW METALS-Cranbury	Certificate No.: 15-1-174
Contract No.: TW/M P.O.No.: M49324273	Date of Issue: 2015.1.23
Commodity: Stainless Steel Seamless Tubes	Specifications: ASTM A213-14/ASME SA213-13/ASTM A269-14 EAW
Process: Cold Drawn	Delivery Condition: OD Polished to 240 Grit

Steel Grade	Heat Number	Lot Number	Dimensions	Quantity
TP304/TP304L	YX1409-574	12-45	5/8" x 0.049" x 20'	150 Pieces
				3,000 Feet

Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.010	0.66	0.030	0.002	0.32	18.27	8.05	-	-
Product Analysis	0.018	0.64	0.033	0.001	0.30	18.25	8.55	-	-

Mechanical Properties									
Test Item	Elongation (% in 2")	Tensile Strength (PSI)	Yield Strength (PSI)						
Requirements	≥35	≥75,000	≥30,000						
Test Results	61/62	94,000/95,000	42,000/43,000						
Test Item	Reduction of Area : Z (%)	Hardness	Cold Bend Test	Flaring Test	Flattening Test	Flange Test	P.M.I. Test		
Requirements	-	HRB≤80	-	22%	e=0.09	-	-		
Test Results	-	77/79	-	Passed	Passed	-	OK		
Test Item	Eddy Current Test	Air Underwater Pressure Test	Ultrasonic Test	Intergranular Corrosion Test	Macroscopic Inspection				
Requirements	ASTM E 426	-	-	ASTM A262 E	End Cut	Appearance			
Test Results	Passed	-	-	OK	OK	OK			

ISO 9001:2008 Certified by Intertek 110703068

Additional Remarks:

(1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes

(2) All tubes tested per ASTM A1016-14
 (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
 (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
 (5) In Compliance with EN 10204-3.1
 (6) In Compliance with RoHS Stipulation
 (7) No weld repair performed
 (8) Free from mercury contamination
 (9) Free from radioactive contamination
 (10) Billets melt and pipes/tubes manufactured in China
 (11) All tubes 100% PMI tested
 (12) All tubes 100% Eddy Current tested

We hereby certify that this report is true and correct.

Shanghai PuFa Stainless Steel Pipe Factory
 No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China

James Shi / Manager
 Quality Control Department

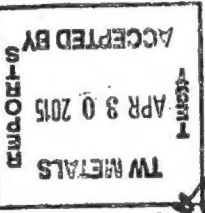
By:



CANNOT CERTIFY COMPLIANCE
 FAR BAA / DFARS BAA / FAR TAA

DAS
 14
 9-39

16/04/18



TCPW26931

Mill Test Report

EN 10204-3.1

Commodity : STAINLESS STEEL WELDED PIPE

Customer : TA CHEN INTERNATIONAL, INC.

TA CHEN STAINLESS PIPE CO., LTD.

Specification : ASTM A312/A312M-2014

Shipper : TA CHEN STAINLESS PIPE CO., LTD.

JENG-TEH, TAINAN, TAIWAN

ASME SA312-2013/ASTM A999-2014

Destination : CHICAGO

TEL: (06) 2793254 FAX: (06) 2701382

Grade : TP304/304L

Customer O/N : 147425/M49320761

Certificate No : OP1053001

Supply Condition: ANNEALED AND PICKLED

Factory O/N : QA0208668

Date : 2014/10/17 INVOICE No : QA02OP1053

Item No.	Case No. (Crate No.)	Heat No.	Size	Quantity (Pcs)	Weight (Kgs)	Chemical Composition in %								
						C	SI	Mn	P	S	Ni	Cr	Mo	N
01	008	LZ132868	3/8" SCH40S 20(6.1M) TP304/304L 100	100	0.023	0.520	1.040	0.039	0.0010	8.020	18.150	-	0.056	
02	021, 022, 023, 024, 025, 026, 027	YU175035A	1-1/4" SCH40S 20(6.1M) TP304/304L 250	250	0.018	0.420	1.550	0.038	0.0120	8.090	18.160	-	0.039	
03	014, 015, 016, 017, 018, 019, 020	B946168A	1-1/2" SCH40S 20(6.1M) TP304/304L 225	225	0.028	0.390	1.410	0.034	0.0010	8.010	18.210	-	0.061	
04	008, 009, 010, 011	LZ220687	2" SCH10S 20(6.1M) TP304/304L 100	100	0.022	0.500	1.030	0.031	0.0040	8.060	18.310	-	0.056	
05	004, 005, 006	LZ130911	3" SCH05S 20(6.1M) TP304/304L 30	30	0.025	0.540	1.040	0.032	0.0030	8.040	18.290	-	0.054	
06	012, 013	LZ220683	3-1/2" SCH40S 20(6.1M) TP304/304L 20	20	0.023	0.460	1.010	0.037	0.0020	8.030	18.410	-	0.052	
Total				725										
Remarks														

Item No.	Tensile Test (Gage Lth x W.Lth=50mm x 12.5mm)				Hardness		Bend Test	Flattening Test	HT TEMP Quenching In-Water	Dimension And Surface Condition	Hydrostatic Test PSI	Melt Source
	0.2% Yield Strength PSI	1.0% Yield Strength PSI	Tensile Strength PSI	Elongation %	Test HRB							
01	41500	-	96600	55	82.00		OK	OK	1904	OK	2500	CHINA
02	40700	-	91100	52	81.00		OK	OK	1904	OK	2500	TAIWAN
03	51800	-	89900	47	84.00		OK	OK	1904	OK	2300	CHINA
04	37500	-	80500	56	85.00		OK	OK	1904	OK	1400	CHINA
05	38900	-	93200	56	79.00		OK	OK	1904	OK	700	CHINA
06	43700	-	87600	42	85.00		OK	OK	1904	OK	1700	CHINA

1. MERCURY FREE
2. EDDY CURRENT TEST : O.K.
3. ASTM A262E : O.K.
4. NACE MR0175-09
5. FAR BAA - CANNOT CERTIFY COMPLIANCE
6. DFARS BAAS-CANNOT CERTIFY COMPLIANCE
7. FAR TAA-CANNOT CERTIFY COMPLIANCE

TYW METALS
RECEIVED
DATE DEC 8 11
BY
ACCEPTED BY

Seape Chang

We hereby certify the above statement to be true and correct every detail
TA CHEN has established a QMS according to ISO 9001, which is certified by LRQA (cert. no. TWN0936925)

Manager of Inspection Section/George Yang

George Yang



- Remarks
1. MERCURY FREE
 2. EDDY CURRENT TEST : O.K.
 3. ASTM A262E : O.K.
 4. NACE MR0175-09
 5. FAR BAA - CANNOT CERTIFY COMPLIANCE
 6. DFARS BAAS - CANNOT CERTIFY COMPLIANCE
 7. FAR TAA - CANNOT CERTIFY COMPLIANCE

PuFA™

MILL TEST REPORT

Producer of Premium Stainless Steel Seamless Tubes

Purchaser: TW METALS-Cranbury		Certificate No.: 16-1-13	
Contract No.: TWM P.O.No.: M49342471		Date of Issue: 2016.1.5	
Commodity: Stainless Steel Seamless Tubes		Specifications: ASTM A213-15/ASME SA213-15/ASTM A269-15a EAW	
Process: Cold Drawn			
Delivery Condition: OD Polished to 240 Grit			
Steel Grade	Heat Number	Lot Number	Dimensions
TP304/TP304L	YX1501-783	11-63	3/4" x 0.049" x 20'
Quantity		Pieces	Feet
250		5,000	

Chemical Composition by Weight (%)									
Element	C	Mn	P	S	Si	Cr	Ni	Mo	Co
Requirements	≤0.035	≤2.00	≤0.045	≤0.030	≤1.00	18.00-20.00	8.00-12.00	-	-
Ladle Analysis	0.012	0.68	0.031	0.001	0.37	18.35	8.05	-	-
Product Analysis	0.019	0.70	0.033	0.002	0.39	18.37	8.31	-	-

Mechanical Properties									
Test Item	Elongation (% in 2")	Tensile Strength (PSI)		Yield Strength (PSI)					
Requirements	≥35	≥75,000		≥30,000					
Test Results	65/66	89,000/90,000		34,000/35,000					
Test Item	Reduction of Area Z (%)	Hardness		Cold Bend	Flaring	Flattening	Flange	P.M.L. Test	
Requirements	-	HRB≤80		-	-	-	-	-	-
Test Results	-	75/77		-	-	-	-	-	-
Test Item	Eddy Current Test	Air Underwater	Pressure Test	Ultrasonic	Corrosion Test	Macroscopic Inspection			
Requirements	ASTM E 426	-	-	-	ASTM A262 E	End Cut	Appearance		
Test Results	Passed	-	-	-	OK	OK	OK		

ISO 9001:2008 Certified by Intertek 110703068 PED Certified by SZUTEST 2195-PED-1526002

Additional Remarks:

- (1) All tubes annealed to above 1900 Deg F and water quenched below 800 Deg F in 3 minutes
- (2) All tubes tested per ASTM A1016-14
- (3) Materials is NACE MR0103-2007 compliant (per Section 2.5)
- (4) Materials is NACE MR0175/ISO 15156-2003 compliant (per Section 4.2.1)
- (5) In Compliance with EN 10204-3.1
- (6) In Compliance with RoHS Stipulation
- (7) No weld repair performed
- (8) Free from mercury contamination
- (9) Free from radioactive contamination
- (10) Billets melt and pipes/tubes manufactured in China
- (11) All tubes 100% PMI tested
- (12) All tubes 100% Eddy Current tested

By:

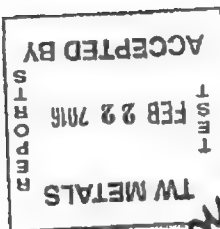


James Shi / Manager

Quality Control Department

Shanghai PuFa Stainless Steel Pipe Factory

No. 59, Shuangye Road, Wanggang, New Pudong District, Shanghai, China



MATERIAL RECEIPT INSPECTION FORM

MATERIAL 17304 DATE 16/04/18
 MATERIAL CERT REC'D QUANTITY RECEIVED 801
 QUANTITY INSPECTED 801
 QUANTITY REJECTED
 PO / BATCH NO 31905/134528
 THICKNESS ORDERED T. 750 X. 04940
 THICKNESS RECEIVED T. 750 X. 04300
 SHEET SIZE ORDERED
 SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRIND SECTION	Y	
CORRECT MATERIAL	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	Y	
CORRECT REF # (LOT NO CERT)	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT # ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF?	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT?	Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK
 RECORD RESULTS BELOW
 TYPE OF MATERIAL
 HRC HRB DUR A DUR D
 COMMENTS

QC 18 INSPECTION
 INSPECTED BY 14
 DATE 16/04/18
 SIGNED OFF BY
 DATE

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL 1304
 DATE 16/04/18
 QUANTITY RECEIVED 420
 QUANTITY INSPECTED 201
 QUANTITY REJECTED
 MATERIAL CERT. NO.
 PO / BATCH NO 31905/134528
 THICKNESS ORDERED 1.625 X .049in
 THICKNESS IN STOCK 1.620 X .043in
 SHEET SIZE ORDERED
 SHEET SIZE RECEIVED

DESCRIPTION	NCR (Check V N)	COMMENTS
SURFACE DAMAGE	Y	
CORRECT FINISH	Y	
CORROSION	Y	
CORRECT GRIND REGION	Y	
CORRECT MATERIAL	Y	
CORRECT THICKNESS	Y	
PHOTO REQUIRED	Y	
CORRECT MATERIAL	Y	
CORRECT RET # TO LINK CERT	Y	
CORRECT MATERIAL IDENTIFICATION	Y	
CORRECT M# ON THE MATERIAL	Y	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK	RECORD RESULTS BELOW
TYPE OF MATERIAL	HRC
SIZE OF TEST SAMPLE	HRB
HARDNESS	DUR A
TESTERS LOCATED IN THE QUALITY OFFICE	DUR D

QC 18 INSPECTION
 INSPECTED BY 14
 DATE 16/04/18
 SIGNED OFF BY
 DATE
 Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

NO. BATCH NO 31905/134528
 THICKNESS ORDERED 7.00X.0650
 THICKNESS RECEIVED 7.00X.0600
 SHEET SIZE ORDERED
 SHEET SIZE RECEIVED

MATERIAL ML68176
 DATE 16/04/18
 MATERIAL CERT REC'D 40
 QUANTITY RECEIVED 60
 QUANTITY INSPECTED 60
 QUANTITY REJECTED

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT CHANNEL SECTION	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT REF # TO LINK CLIP	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT MAT# ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF?	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK			
RECORD RESULTS BELOW			
HRC	HRB	DUR A	DUR D
TYPE OF MATERIAL			
SIZE OF TEST SAMPLE			
HARDNESS / DUREMETER READING			

Testers located in the Quality Office

QC 18 INSPECTION

INSPECTED BY 14 DATE 16/04/18

SIGNED OFF BY _____ DATE _____

ENGINEERING SIGNOFF (if required)

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL NO. 1606156 DATE 16/04/18
 QUANTITY RECEIVED 400
 QUANTITY INSPECTED 600
 QUANTITY REJECTED _____
 PO / BATCH NO. 31905134528
 THICKNESS ORDERED 6.25 X .04110
 THICKNESS RECEIVED 6.25 X .04110
 SHEET SIZE ORDERED _____
 SHEET SIZE RECEIVED _____

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="checkbox"/>	
CORRECT FINISH	<input checked="" type="checkbox"/>	
CORROSION	<input checked="" type="checkbox"/>	
CORRECT GRAIN DIRECTION	<input checked="" type="checkbox"/>	
CORRECT WAFFLE	<input checked="" type="checkbox"/>	
CORRECT THICKNESS	<input checked="" type="checkbox"/>	
PHOTO REQUIRED	<input checked="" type="checkbox"/>	
CORRECT MATERIAL	<input checked="" type="checkbox"/>	
CORRECT ROLL TO LINK CRI	<input checked="" type="checkbox"/>	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="checkbox"/>	
CORRECT # ON THE MATERIAL	<input checked="" type="checkbox"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF?	<input checked="" type="checkbox"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="checkbox"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK			
RECORD RESULTS BELOW			
HRC	HRB	DUR A	DUR D

Testers located in the Quality Office

QC 18 INSPECTION
 INSPECTED BY 14
 DATE 16/04/18
 SIGNED OFF BY _____
 DATE _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u>	SIGNED OFF BY: _____
DATE: <u>16-04-27</u>	DATE: _____

Testers located in the Quality Office

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW	TYPE OF MATERIAL	HRC	HRB	DUR A	DUR D
	SIZE OF TEST SAMPLE				
	HARDNESS / DUROMETER READING				

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	(Y) (N)	
CORRECT FINISH	(Y) (N)	
CORROSION	(Y) (N)	
CORRECT GRAIN DIRECTION	(Y) (N)	
CORRECT MATERIAL	(Y) (N)	
CORRECT THICKNESS	(Y) (N)	
PHOTO REQUIRED	(Y) (N)	
CORRECT MATERIAL	(Y) (N)	
CORRECT REF # TO LINK CERT	(Y) (N)	
CORRECT MATERIAL IDENTIFICATION	(Y) (N)	
CORRECT M# ON THE MATERIAL	(Y) (N)	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	(Y) (N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	(Y) (N)	

1304/1316 3/8 schedule 40
L7132868

MATERIAL CERT REC'D: <u>405</u>	QUANTITY RECEIVED: <u>40</u>
QUANTITY INSPECTED: <u>40</u>	QUANTITY REJECTED: <u>0</u>
THICKNESS ORDERED: <u>0.01</u>	THICKNESS RECEIVED: <u>0.01</u>
SHEET SIZE ORDERED: <u>N/A</u>	SHEET SIZE RECEIVED: <u>N/A</u>

MATERIAL: <u>H354TR05W.091</u>	DATE: <u>16-04-27</u>
PO / BATCH NO.: <u>8051905 / H35428</u>	

MATERIAL RECEIPT INSPECTION FORM



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO31905
Purchase Order Date 4/1/2016
PO Print Date 4/1/2016

Page Number 1 of 3

Order From :

VU-TWM001

Ship To : DART AEROSPACE LTD

TW METALS
PO BOX 933014
ATLANTA, GA 31193-3014
US
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA



APR 01 2016

Contact Name

Vendor Phone 585 768 5600

Ship To Contact

Ship To Phone

Ship Via:

YRC COLLECT

Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency USD
FOB FCA - (Free Carrier)

Line	Reference	Description/	Reg Date/	CD	Reg Qty/	Unit of	Measure	PO Unit Price	Extended
Nbr	Vendor Part Number	Line Comments	Promise Date						Price

1	M6061T6T0.625W.049	6061-T6 RD Tube .625 x.049W	4/8/2016	Yes	60.00	f		\$3.50	\$210.00
MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241									

2	M6061T6T1.000W065	6061T6 RD TUBE 1.00 x .065w	4/8/2016	Yes	60.00	f		\$2.96	\$177.60
MATERIAL: 6061-T6/T62/T6510/T6511 SEAMLESS TUBING AS PER WW-T-700/6 OR QQ-A-225/8 OR AMS 4080 OR AMS 4082 OR AMS 4083 OR ASTM B210 OR ASTM B241									

Line Total: \$177.60

Line Total: \$210.00

8016008

4/1/2016

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO31905

Purchase Order Date 4/1/2016
PO Print Date 4/1/2016

Page Number 2 of 3

Order From :

VU-TWM001

Ship To : DART AEROSPACE LTD

TW METALS
PO BOX 933014
ALANTA, GA 31193-3014
US

Contact Name

Vendor Phone

585 768 5600

Ship To Contact

Ship To Phone

Ship Via:

YRC COLLECT

Ship Act:

M304TR0.625W.049

304 RD Tube 0.625 x .049

4/8/2016

Yes

4/8/2016

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING
AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

MATERIAL: AISI 304/316 SS SEAMLESS ROUND TUBING
AS PER ASTM A213 OR ASME SA213 OR ASTM A269

MATERIAL: T304/T316 3/8 SCHEDULE 40
(REF. DART SPECS M304TR0.675W.091)

304 RD Tube .675 x .091W

4/8/2016

Yes

4/8/2016

304 RD Tube .750 x .049W

4/8/2016

Yes

4/8/2016

MATERIAL: AISI 304/316 SA SEAMLESS ROUND TUBING
AS PER ASTM A213 OR AMSE SA213 OR ASTM A269

M304TR0.750W.049

Note:

4/1/2016

\$62.00

\$3.10

\$62.00

Line Total:

\$149.20

\$3.73

\$149.20

Line Total:

\$168.00

\$2.10



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER
Purchase Order ID PO31905
Purchase Order Date 4/1/2016
PO Print Date 4/1/2016
Page Number 3 of 3

Order From :

VU-TWM001

Ship To : DART AEROSPACE LTD

TW METALS
PO BOX 933014
ALTANTA, GA 31193-3014
US

Contact Name
Vendor Phone

585 768 5600

Ship To Contact
Ship To Phone
Ship Via:
Ship Acct:

YRC COLLECT

Buyer
Customer POID
Customer Tax #
Terms
Currency
FOB
FCA - (Free Carrier)
USD
Net 30

Chantal Lavoie

6 71401-45

PROCUREMENT
QUALITY CLAUSES

4/8/2016
No
4/8/2016

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

8216048

Line Total: \$168.00
\$0.00

Line Total: \$0.00

PO Total: \$766.80

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 2

Change Date: 4/1/2016